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[Continued on next page]

(54) Title: POLYPEPTIDE PARTICIPATING IN PYRIDOXINE BIOSYNTHESIS, A POLYNUCLEOTIDE CODING THE POLYPEPTIDE AND THOSE USES

At5g10410	MEGTGVVAVYGNGAITEAK-KSPFSVKVGLAOMLRGGVIMDVVNAEQARIAEE 5	i2
At2g38230	MAGTGVVAVYGEGAMTETKQKSPFSVKVGLAGMLRGGVIMDVVNAEQARIAEE 5	.3
At3g16050	MADQAMTDQDQGAVTLYSGTAITDAKKNHPPSVKVGLAQVLRGGAIVEVSSVMQAKLAES 6	
Bnz3	MSEFKYKTGLAQMLKGGVIMDVVTPEQAIIAER 3	
snz2	MSEPKVKTGLAQMLKGGVIMDVVTPEQAIIAER 3	13
snzi	MTGEDPKIKSGLAGMLKGGVIMDVVTPEQAKIAEK 3	.5
	# # ##################################	
At5g10410		12
At2g38230	AGACAVMALERYPADIRAGGGVARMSDPEMIKEIKNAVTIPVMAKARIGHFVEAGILEAI 1	
At3g16050	AGACSVIVSDPVRSRGGVRRMPDPVLIKEVKRAVSVPVMARARVGHFVEAQILESL 1	
snz3	AGACAYMALERIPADMRKSGGVCRMSDPEMIKEIMEAVSIPYMAKVRIGHFVEAGILEEL 9	
snz2	AGACAVMALERIPADMRKSGQVCRMSDPRMIKEIMEAVSIPVMAKVRIGHFVEAQILEEL 9	3
snzi	SGACAYMALESIPADMRKSGKVCRMSDPKMIKDIMNSVSIPYMAKVRIGHFVEAQIIEAL 9	5
	immaimi, i im m m m mm, mm immii (imiimmami, mimmamamamia )	
At5g10410	GIDYIDESEVLTLADEDHHINKHNFRIPFVCGCRNLGEALRRIREGAAMIRTKG-BAGTG 1	٠.
At2g38230	GVDYVDESEVLTLADEDNHIKKHNFKIPFVCGCRNLGEALRRIREGAAMIRTKG-EAGTG 1	
At3g16050	AVDVIDESELISVADDDHFINKHNFRSPFICGCRDTGEALRRIREGAAMIRIQGDLTATG 1	
sng3	OVDVIDESEVLTPADWITHHIEKHNFKVPFVCGAKDLGEALRRINEGAAMIRTKG-EAGIG 1	
eng2	QVDYIDESEVLTPADWITHHIEKHNPKVPPVCGAKDLGEALRRINEGAAMIRIKG-EAGIG 1	
enzi	EVDVIDESEVLTPADWIHAIEKDKFKVPFVCGAKDLGEALRRINEGAAMIRIKG-EAGIG 1	52
01122	[as:esss::: as : a: : a: a: a: as:as :: semmas amasses :s : as as:as:as:as:as:as:as:as:as:as:as:as:as:a	54
At5g10410	NIIEAVRHVRSVNGDIRVLRNMDDDEVFTFAKKLAAPYDLVNQTKQLGRLPVVQFAAG 2	29
At2g38230		30
At3g16050	NIAETVKNVRSLMGEVRVLENMDDDEVFTFAKKISAPYDLVAGTKOMGRVPVVQFASG 2	34
sn <sub>z</sub> 3	DVSEAVEHITEIKAEIQOYEENLETESDFAAKATELRVPVDLLETTLSEGELPVVNFAAG 2	12

(57) Abstract: The present invention discloses a polypeptide participating in pyridoxine biosynthesis, a plynucleotide coding the polypeptide and those uses. Particularly, this present invention discloses a polypeptide participating in pyridoxine biosynthesis, a polynucleotide coding the polypeptide, a method for inducing plant growth inhibition, a method for screening a compound inducing plant growth inhibition, and composition for inducing plant growth inhibition which comprises the compound obtained by the screening method.

snz2

At5g10410

At2038230

At3g16050

At5g10410

At2g38230 At3g16050 snz3 snz2

snz2 snz1



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